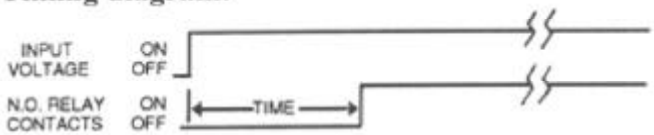
AMPERITE *Solving Your Timing Requirements Since 1922*

DC10 Series TDR

Solid state CMOS digital circuitry
Triggered delay on release timing mode
DPDT (2 form C) isolated 10 ampere relay contacts
Timing selection: Knob adjustable or Fixed
Numerous models timing from 0.1 secs. to 1000 hours
UL File #E96739 (M)
CSA File #LR62586

Timing Mode:
Delay on operate timing cycle begins upon application of input power. The relay contacts transfer at the end of the delay period and will remain transferred until input voltage is removed. Reset occurs when input voltage is removed.

Timing diagram:



Contact Information:
Arrangement: 2 form C (DPDT) - Diagram C
Contact Material: Silver - Cadmium Oxide
Rating (Resistive):
10A @ 240V AC Resistive
15A @ 30V DC Resistive
15A @ 120V AC Resistive
1/3 HP @ 120V AC
1/2 HP @ 250V AC
Expected Life @ 25°C : 10 Million operations, Mechanical; 100,000 operations minimum at rated loads.

Environmental Information:
Temperature Range:
Storage: -60°C to +105°C (-76°F to +221°F)
Operating: -45°C to +70°C (-49°F to +158°F)

Mechanical Information:
Termination: 8 pin Octal Style Plug or 11 pin spade terminals (Diagram C & D)
Enclosure: White plastic case. Knob adjustable models have a dial scale for reference only.
Weight: 4 oz (114g) approx.

Outline Dimensions (Octal Style):
Please contact us for information on 11-pin spade terminal style (LDC10).

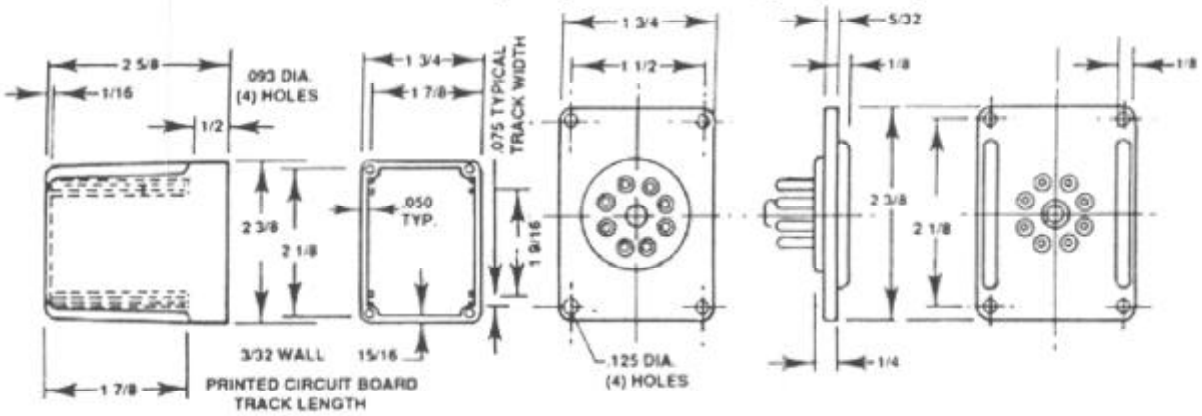


Diagram A Diagram B

Timing Specification:
Timing - Fixed: 0.1 sec. through 1000 hours.
Timing Ranges: Standard timing ranges are as follows:
.1 to 10 secs., 1 to 30 secs., 1.8 to 180 secs., 5 to 300 secs., 1 to 60 mins., 1 to 60 hours. **Custom timing is available.**
Timing Adjustment: Knob adjustable potentiometer.
Timing Tolerance: Fixed Units: ±5%; 1% units are available at extra cost.
Adjustable Units: -0 to +10% of maximum specified delay time.
Minimum specified value or less at low end.
Repeatability: ±1%
Release Time: 60 ms typical, 100 ms maximum
Timing Cycle Interrupt Transfer: None
Reset: Upon interruption of power

Initial Dielectric Strength:
Between open contacts: 1000V RMS, Between adjacent contacts: 1500V RMS,
Between contacts & coil: 1500V RMS

Input Information:
Voltage: AC units- 12V, 24V, and 120V; DC units: 12V, 24V, 48V, and 110V. Other voltages are available.
Power Requirement: AC units: 3 VA or less, DC units: 3 Watts or less
Transient Protection: 1 Joule MOV
Polarity Protection: On DC units - Yes

Input Voltages & Limits:

Nominal	Minimum	Maximum
12V AC	10V	14V
24V AC	20V	28V
120V AC	105V	130V
12V DC	11V	14V
24V DC	20V	32V
48V DC	41V	55V
110V DC	95V	125V

Wiring Diagrams:

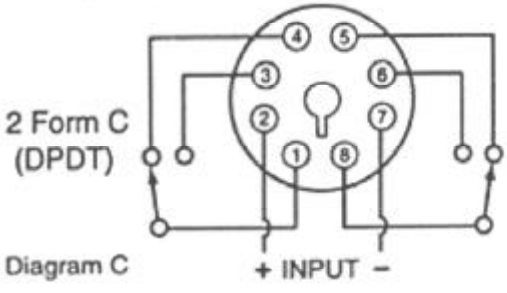


Diagram C

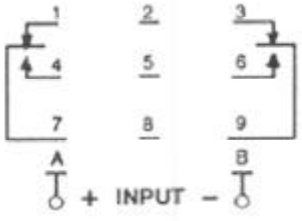


Diagram D

Ordering Information:

Definition of a part number for the Amperite DC10 Series Time Delay Relay.
Example:

120	A	P	1	-60	S	L	DC
A	B	C	D	E	F	G	H

A: Denotes nominal input voltage. Voltages available: 12, 24 & 120V AC; 12, 14, 48, & 110V DC, Custom voltages are available.

B: Denotes type of input current required for operation:
A = AC - Alternating Current, D = DC - Direct Current

C: Denotes contact form: P= DPDT - 2 form C.

D & E: Denotes range of knob adjustability for timing (in seconds, minutes or hours) where:
D= Minimum time delay. E= Maximum time delay for adjustable TDR'S.
Note: